

Applicant: Elsa A.J.M. Goulmy
Serial No: 09/269,250
Filed: May 21, 1999
Page: 2

In the Claims

Please amend claims 1, 2, 4, 5, 8-9, and 17-19 under the provisions of 37 C.F.R. §1.121(c). The amended claims are presented below and the amendments to the claims are indicated in the marked-up set of claims attached as **Exhibit C**.

Sub F1
1. (Amended) Method for typing of alleles of the Minor Histocompatibility Antigen HA-1 in a sample the method comprising detecting polymorphic nucleotides in the cDNA or genomic nucleic acids of said alleles, thereby typing the alleles.

2. (Amended) Method according to claim 1, further characterized in that said alleles of the Minor Histocompatibility Antigen HA-1 are the R allele and the H allele comprising amino acids in sequence as shown in SEQ ID NOS: 17-20.

Sub F2
4. (Amended) Method according to claim 1, further characterized in that:
said at least one pair of primers comprises a 5'-primer that specifically hybridizes to a target region comprising the nucleotides at position 4 or at positions 4 and 8 in the HA-1 allele, or, said at least one pair of primers comprises a 3'-primer that specifically hybridizes to a target region comprising the nucleotides at position 8 or at positions 4 and 8 in the HA-1 allele, with said positions being indicated in SEQ ID NOS: 17-20.

5. (Amended) Method according to claim 4, further characterized in that:

Applicant: Elsa A.J.M. Goulmy
Serial No: 09/269,250
Filed: May 21, 1999
Page: 3

Variant

said 5'-primer is combined with a 3'-primer specifically hybridizing to a target region in intron a, and/or said 3'-primer is combined with a 5'-primer specifically hybridizing to a target region in exon a, with intron a and exon a being indicated in SEQ ID NO: 21-22.

8. (Amended) Method according to claim 7, further characterized in that said at least one pair of primers comprises a 5'-primer specifically hybridizing to a conserved target region in exon a and/or a 3'-primer specifically hybridizing to a conserved target region in intron a, with exon a and intron a being indicated in SEQ ID NOS: 21-22.

D3
Sub F3

9. (Amended) Method according to claim 7 further characterized in that said at least one probe specifically hybridizes to a target region comprising the nucleotides at position 4 and/or 8 in the HA-1 allele, with said positions being indicated in SEQ ID NOS: 17-20.

Sub F5

17. (Amended) A diagnostic kit for genomic typing of alleles of the Minor Histocompatibility Antigen HA-1 according to claim 14, with said kit comprising:
a) at least one primer according to claim 10;
b) optionally, an enzyme and/or reagents enabling the amplification reaction, and/or reagents enabling the sequencing reaction.

D4

18. (Amended) A method for typing HA-1 alleles comprising using antibodies specifically detecting the HA-1

Applicant: Elsa A.J.M. Goulmy
Serial No: 09/269,250
Filed: May 21, 1999
Page: 4

alleles as shown in SEQ ID NOS: 17-20.

7/4/00 19. (Amended) A diagnostic kit for typing HA-1 alleles comprising antibodies specifically detecting the HA-1 alleles as shown in SEQ ID NOS: 17-20.

Please add new claim 20 as follows:

Sub F6
DS 20. (New) An isolated polynucleic acid identified by SEQ ID NO. 1, or SEQ ID NO. 17, or SEQ ID NO. 18 or an isolated polynucleic acid displaying at least 80% sequence homology to said polynucleic acid.